

CURRICULUM VITAE

CHARLES J. LOCKWOOD, M.D.

Social Security Number: _____

Home Address: _____

Office Address:

Department of Obstetrics and Gynecology
New York University Medical Center
550 First Avenue
New York, NY 10016

Office Telephone Number: _____

Date of Birth: _____

Place of Birth: _____

FORMAL EDUCATION:

1973-1977

Brown University, Providence, Rhode Island (B.S.)

1977-1981

University of Pennsylvania School of Medicine,
Philadelphia, Pennsylvania (M.D.)

POSTGRADUATE TRAINING:

1981-1985

Residency in Obstetrics and Gynecology
Pennsylvania Hospital, Philadelphia, PA

1985-1987

Fellowship in Maternal-Fetal Medicine
Department of Obstetrics and Gynecology
Yale University School of Medicine, New Haven, CT

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.***CERTIFICATION:**

1988	Diplomate of the American Board of Obstetrics and Gynecology
1989	Special Certification in Maternal-Fetal Medicine American Board of Obstetrics and Gynecology
1989	New York State Medical License

ACADEMIC APPOINTMENTS:

1987-1989	Assistant Professor of Obstetrics and Gynecology, Director of Perinatal Research Tufts University School of Medicine, Boston, MA
1989-1992	Assistant Professor of Obstetrics, Gynecology and Reproductive Sciences, Director of Perinatal Research, Mount Sinai School of Medicine, New York, NY
1992-1995	Associate Professor of Obstetrics, Gynecology and Reproductive Sciences, Director of Perinatal Research, Mount Sinai School of Medicine, New York, NY
1995-present	Professor and Chairman, Department of Obstetrics and Gynecology, New York University School of Medicine, New York, NY

HOSPITAL APPOINTMENTS:

St. Margaret's Hospital, Boston, MA	
1987-1989	Attending
Mount Sinai Medical Center, New York, NY	
1989-1992	Assistant Attending
1992-1995	Associate Attending
Elmhurst Hospital, New York, NY	
1989-1992	Assistant Attending
1993-1994	Associate Attending
New York Downtown Hospital, New York, NY	
1995-present	Attending

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Charles J. Lockwood, M.D.

New York University Medical Center, New York, NY
1995-present Attending

Bellevue Hospital, New York, NY
1995-present Attending

The Valley Hospital, Ridgewood, NJ
1996-present Consulting Medical Staff

HOSPITAL/CORPORATE BOARDS AND COMMITTEE MEMBERSHIPS:

Medical Board of Bellevue Hospital	1995--present
Executive Committee of the Medical Board, New York University Medical Center	1995--present
Board of Directors, University MSO LLP	1996--present
Director, Maternal Child Health Clinical Service Line, Bellevue Hospital	1996--present
Chair, Information Management Subcommittee, Bellevue Hospital	1996--present
The Quality Council, Bellevue Hospital	1996--present
Medical Advisory Board, Women's Integrated Network	1996-present

NATIONAL COMMITTEES:

American College of Obstetricians and Gynecologists Committee on Obstetric Practice	1997--present
American College of Obstetricians and Gynecologists Committee on Practice Patterns	1997-present
Council of the New York Perinatal Society	1997-present

AWARDS AND HONORS:

American Cancer Society Fuller Junior Research Fellowship	1976
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University of Pennsylvania Resident Teaching Award	1985
Award for Best Genetic Research in Perinatal Medicine, 7th Annual Meeting, Society of Perinatal Obstetricians	1987

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Second Prize Award for Best Paper in Perinatal Medicine, 8th Annual Meeting, Society of Perinatal Obstetricians	1988
Award Paper, SPO Special Interest Group, American College of Obstetrics and Gynecology, Annual Clinical Meeting	1988
Resident Teaching Award, Dept. of Obstetrics and Gynecology, Tufts University School of Medicine	1988
Kennedy-Dammreuther Fellowship of the American Association of Obstetricians and Gynecologists Foundation	1989
First Prize Award for Poster Presentation, International Congress of Perinatal Medicine, Tokyo, Japan	1991
American Gynecological and Obstetrical Society Endowment Scholar Lecture, 10th Annual Meeting of the American Gynecological and Obstetrical Society	1991
Globus Award for the Best Paper with Clinical Orientation, Platelet Disorders in Pregnancy: Implications for Mother and Fetus, Mount Sinai Journal of Medicine	1994
American Health, "The Best Doctors in America, Obstetrics and Gynecology," March 1996	1996
President, Third International Conference on The Uterus: Endometrium and Myometrium, New York University Medical Center	1996

PROFESSIONAL MEMBERSHIPS:

Fellow, The New York Academy of Medicine
 Fellow, The American College of Obstetrics and Gynecologists
 Member, American Institute for Ultrasound in Medicine
 Member, American Medical Association
 Member, Association of Professors of Gynecology and Obstetrics
 Member, The Endocrine Society
 Member, International Society for Gynecologic Endocrinology
 Member, North American Society for the Study of Hypertension in Pregnancy
 Member, The Perinatal Research Society
 Member, Society for Gynecologic Investigation
 Member, Society of Perinatal Obstetricians

EDITORIAL BOARDS:

Editorial Board, ACOG Interactions: Programs in Clinical Decision Making	1990-1993
Editorial Board, Mount Sinai Journal	1990-1995
Editorial Board, Journal of Clinical Metabolism and Endocrinology	1994-present
Editorial Board, Journal of Maternal-Fetal Investigation	1996-present

Curriculum Vitae - continued

Charles J. Lockwood, M.D.

NIH STUDY SECTION - NICHD- HUMAN EMBRYOLOGY & DEVELOPMENT

RESEARCH INTERESTS:

- 1) Preterm Delivery
- 2) Endometrial Hemostasis
- 3) Prenatal Diagnosis of Fetal Aneuploidy

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GRANTS SUPPORT:

Lederle Laboratories: A prospective, randomized, double-blind, placebo-controlled trial of intravenous Piperacillin Sodium versus placebo in preterm premature rupture of the membranes and preterm labor. — plus drug (1988-1992)

Kennedy-Dannreuther Fellowship of the American Association of Obstetricians and Gynecologists Foundation. — per year for salary support while conducting basic science research (1989-1991).

Revson Foundation Fellowship — per year in salary support while conducting basic science and clinical research. (1990-1992)

Adeza Biomedical, Sunnyvale, CA. Perinatal Research into the biological regulation of fetal fibronectin in reproductive tract tissues. — (1992-1993)

Principal Investigator, National Institutes of Health: Regulation of decidual cell tissue factor expression. R29 HD29540-01A1: \$350,000 (1993-1998)

Co-Principal Investigator, Center for Disease Control Grant: Stress and preterm delivery. \$91,000 (1993-1995)

Principal Investigator, National Institutes of Health: Progestin Effects on Uterine Hemostasis and Angiogenesis. 1R01 HD33234-01: \$807,894 (1995-2000)

CONSULTANT:

1988 - present Adeza Biomedical; Sunnyvale, CA

SPECIAL TRAINING:

1996 Program for Clinical Chiefs, Harvard University School of Public Health

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.***BIBLIOGRAPHY****PEER REVIEW JOURNALS:**

1. Greenberger JS, Lockwood CJ, France DS, McGrath T, Moloney WC: Total body irradiation and syngeneic marrow transplantation in an inbred rat model of acute myelogenous leukemia. *Int J Radiat Oncol Biol Phys* 1978; 4:421.
2. Lockwood CJ, Scioscia AL, Hobbins JC: Congenital absence of the umbilical cord resulting from maldevelopment of embryonic body folding. *Am J Obstet Gynecol* 1986; 155:1049-51.
3. Lockwood CJ, Reece EA, Romero R, Hobbins JC: Antiphospholipid antibodies and pregnancy wastage. *Lancet* 1986; ii:742-45.
4. Lockwood CJ, Stiller R, Bolognese R: Maternal total prenatal nutrition in chronic cholecystitis. *J Repro Med* 1987; 32:785-8.
5. Reece EA, Lockwood CJ, Rizzo N, Pilu G, Bovicelli L, Hobbins J: Intrinsic intrathoracic malformations of the fetus: Sonographic Detection and Clinical Presentation. *Obstet Gynecol* 1987; 70:627-32.
6. Goldstein I, Lockwood CJ, Hobbins JC: Ultrasound assessment of fetal intestine in the evaluation of gestational age. *Obstet Gynecol* 1987; 70:582-6.
7. Lockwood CJ, Benecerraf B, Blademore K, Krinsky A, Belanger K, Mahoney MJ, Hobbins JC: A sonographic screening method for Down's syndrome. *Am J Obstet Gynecol* 1987; 157:803-8.
8. Lockwood CJ, Scioscia A, Stiller R, Hobbins JC: Sonographic features of the triploid fetus. *Am J Obstet Gynecol* 1987; 157:285-7.
9. Goldstein I, Lockwood CJ, Belenager K, Hobbins JC: Ultrasound assessment of gestational age with distal femoral and proximal tibial ossification centers in the third trimester. *Am J Obstet Gynecol* 1988; 158:127-30.
10. Lockwood CJ, Ghidini A, Romero R, Simmons MG, Hobbins JC: Amniotic band syndrome in monozygotic twins: Prenatal diagnosis and pathogenesis. *Obstet Gynecol* 1988; 71:1012-15.
11. Goldstein I, Reece EA, Pilu G, O'Connor TZ, Lockwood CJ, Hobbins JC: Sonographic assessment of the fetal frontal lobe: a potential tool for the prenatal diagnosis of microcephaly. *Am J Obstet Gynecol* 1988; 158:1057-62.

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12. Goldstein I, Lockwood CJ, Reece EA, Belanger KB, Hobbins JC: Sonographic assessment of distal femoral and proximal tibial ossification centers in the prediction of pulmonic maturity in normal women and women with diabetes. *Am J Obstet Gynecol* 1988; 159:72-6.
13. Lockwood CJ, Ghidini A, Romero R, Hobbins JC: Fetal bowel perforation simulating sacrococcygeal teratoma. *J Ultrasound Med* 1988; 7:227-9.
14. Lockwood CJ, Ghidini A, Romero R, Hobbins JC: Antenatal diagnosis of partial agenesis of the corpus callosum: A benign cause of ventriculomegaly. *Am J Obstet Gynecol* 1988; 159:184-5.
15. Stiller R, Soberman S, Turetsky A, Lockwood CJ, Haddad R: Agenesis of the pulmonary artery: An unusual cause of dyspnea in pregnancy. *Am J Obstet Gynecol* 1988; 158:172-3.
16. Stiller R, Lockwood CJ, Belanger K, Hobbins JC, Mahoney MJ: Amniotic fluid alphafetoprotein in twin gestations: Dependence on placental membrane anatomy. *Am J Obstet Gynecol* 1988; 158:1088-92.
17. Feinberg RF, Lockwood CJ, Salafia C, Hobbins JC: Sonographic diagnosis of a pregnancy with a diffuse hydatidiform mole and co-existent 46,XX fetus: A case report. *Obstet Gynecol* 1988; 72:485-8.
18. Romero R, Mazor M, Lockwood CJ, Duffy T, Hobbins JC: The frequency, natural history and clinical significance of thrombocytopenia in pregnancy induced hypertension. *Am J Perinatol* 1989; 6:32-8.
19. Lockwood CJ, Ghidini A, Romero R, Hobbins JC: Amniotic band syndrome: Critical review of its pathogenesis. *Am J Obstet Gynecol* 1989; 160:1030-33.
20. Lockwood CJ, Irons M, Troiana J, Kawada C, Chaudhury A, Cetrulo C: The prenatal sonographic diagnosis of lethal multiple pterygium syndrome: A heritable cause of recurrent abortion. *Am J Obstet Gynecol* 1988; 159:474-6.
21. Peters M, Ryley D, Lockwood CJ: Hereditary angioedema and IgA deficiency in pregnancy. *Obstet Gynecol* 1988; 72:454-5.
22. Lockwood CJ, Romero R, Feinberg RF, Clyne LP, Coster B, Hobbins JC: The prevalence and biological significance of lupus anticoagulant and anticardiolipin antibodies in a general obstetric population. *Am J Obstet Gynecol* 1989; 161:369-73.
23. Peters MT, Lockwood CJ, Miller WA: The efficacy of fetal sonographic biometry in Down's syndrome screening. *Am J Obstet Gynecol* 1989; 161:297-300.

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24. Lockwood CJ, Peters JH: Increased plasma level of ED1+ "Cellular" fibronectin precede clinical evidence of preeclampsia. *Am J Obstet Gynecol* 1990; 162:358-62.
25. Feinberg RF, Kliman JH, Lockwood CJ: Is oncofetal fibronectin a trophoblast glue for human implantation? *Am J Pathol* 1991; 138:537-43.
26. Lockwood CJ, Bach R, Zhou X, Nemerson Y: Tissue factor activity in amniotic fluid. *Am J Obstet Gynecol* 1991; 165:1335-41.
27. Lockwood CJ, Lynch L, Berkowitz RL: Sonographic screening for the Down's syndrome fetus. *Am J Obstet Gynecol* 1991; 165:349-52.
28. Lockwood CJ, Senyei AE, Dische MR, Casal D, Shah KD, Thung SN, Jones L, Deligdisch L, Garite TJ: Fetal fibronectin in cervical and vaginal secretions defines a patient population at high risk for preterm delivery. *N Engl J Med* 1991; 325:669-74.
29. Levine AB, Lockwood CJ, Brown B, Lapinski R, Berkowitz RL: Sonographic diagnosis of the large for gestational age fetus at term: Does it make a difference? *Obstet Gynecol* 1992; 79:55-8.
30. Alvarez AB, Lockwood CJ, Ghidini A, Dottino P, Mitti HA, Berkowitz RL: Prophylactic and emergent arterial catheterization for selective embolization in obstetric hemorrhage. *Am J Perinatol* 1992; 9:5-6.
31. Radunovic N, Lockwood CJ, Alvarez M, Nastic D, Berkowitz RL: Beta-endorphin concentrations in fetal and maternal blood during the second trimester of pregnancy. *Am J Obstet Gynecol* 1992; 167:740-4.
32. Eddleman KA, Lockwood CJ, Berkowitz GS, Lapinski RH, Berkowitz RL: The clinical significance and sonographic diagnosis of velamentous umbilical cord insertion. *Am J Perinatol* 1992; 9:123-6.
33. Radunovic N, Lockwood CJ, Alvarez M, Plecas D, Chitkara U, Berkowitz RL: The severely anemic and hydropic isoimmune fetus: Changes in fetal hematocrit associated with death in utero. *Obstet Gynecol* 1992; 79(3):390-3.
34. Vohra N, Alvarez M, Abramson AF, Lockwood CJ: Hypoplastic pulmonary artery: An unusual entity mimicking pulmonary embolism during pregnancy. *Obstet Gynecol* 1992; 80:483-5.
35. Stone J, Lockwood CJ, Berkowitz GS, Lynch L, Alvarez M, Lapinski RH, Berkowitz RL: Morbidity of failed labor in patients with prior cesarean section. *Am J Obstet Gynecol* 1992; 167:1513-17.

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36. Levine AB, Lockwood CJ, Chitkara U, Berkowitz RL: Maternal renal artery Doppler velocimetry in normotensive pregnancies and pregnancies complicated by hypertensive disorders. *Obstet Gynecol* 1992; 79:264-7.
37. Guller S, Allen DL, Coren RE, Lockwood CJ, Sonenberg M: Growth hormone and fibronectin expression in 3T3 predispose cells. *Endocrinol* 1992; 130(5):2609-2616.
38. Ghidini A, Fallet S, Robinowitz J, Lockwood CJ, Dische R, Wilner J: Prenatal detection of monosomy 21 mosaicism. *Prenat Diagn* 1993; 13:163-9.
39. Lockwood CJ, Nemerson Y, Guller S, et al.: Progestational regulation of human endometrial stromal cell tissue factor expression during decidualization. *J Clin Endocrinol Metab* 1993; 76:231-6.
40. Radunovic N, Lockwood CJ, Ghidini A, Alvarez M, Berkowitz RL: Is fetal blood sampling associated with increased beta-endorphin release into the fetal circulation? *Am J Perinatol* 1993; 10:112-14.
41. Ghidini A, Sepulveda W, Lockwood CJ, Romero R: Complications of fetal blood sampling. *Am J Obstet Gynecol* 1993; 168:1339-44.
42. Lehrer S, Stone J, Lapinski R, Lockwood CJ, Schachter B, Berkowitz G: Association between pregnancy induced hypertension and asthma during pregnancy. *Am J Obstet Gynecol* 1993; 168:1463-6.
43. Stone JL, Lockwood CJ: Amniocentesis and chorionic villus sampling. *Curr Opin Obstet Gynecol* 1993; 5(2):211-17.
44. Ghidini A, Lynch L, Hicks C, Alvarez M, Lockwood CJ: The risk of second trimester amniocentesis in twin gestations: A case-control study. *Am J Obstet Gynecol* 1993; 169:1013-16.
45. Lockwood CJ, Costigan K, Ghidini A, Wein R, Chein D, Brown B, Alvarez M, Cetrulo C: Double-blind, placebo-controlled trial of piperacillin prophylaxis in preterm membrane rupture. *Am J Obstet Gynecol* 1993; 169:970-5.
46. Schatz F, and Lockwood CJ: Progesterone regulation of plasminogen activator inhibitor type 1 in primary cultures of endometrial stromal and decidual cells. *J Clin Endocrinol Metab* 1993; 77:621-5.
47. Guller S, LaCroix NC, Kirkun G, Wozniak R, Markeiwicz L, Wang E, Kaplan P, Lockwood CJ: Steroid regulation of oncofetal fibronectin expression in human cytotrophoblasts. *J Steroid Biochem Molec Bio* 1993; 46:1-10.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

48. Guller S, Wozniak R, Krikun G, Burnham JM, Kaplan P, Lockwood CJ: Glucocorticoid suppression of human placental fibronectin expression: Implications in uterine placental adherence. *Endocrinol* 1993; 133:1139-46.
49. Vohra N, Ghidini A, Alvarez M, Lockwood CJ: Walker-Warburg syndrome: Prenatal ultrasound findings. *Prenat Diagn* 1993; 13:575-9.
50. Lockwood CJ, Wein R, Lapinski R, Casal D, Berkowitz G, Alvarez M, Berkowitz RL. The presence of cervical and vaginal fetal fibronectin predicts preterm delivery in an inner city obstetrical population. *Am J Obstet Gynecol* 1993; 169:798-804.
51. Lockwood CJ, Nemerson Y, Krikun G, Hausknecht V, Markewicz L, Wang EY, Alvarez M, Guller S, Schatz F: Steroid-modulated stromal cell tissue factor expression: A model for the regulation of endometrial homostasis and menstruation. *J Clin Endocrinol Metab* 1993; 77:1014-19.
52. Stone JL, Lockwood CJ, Berkowitz GS, Alvarez M, Lapinski R, Berkowitz RL: Risk factors for severe preeclampsia. *Obstet Gynecol* 1994; 83:357-61.
53. Lockwood CJ, Lynch L, Ghidini A, Berkowitz G, Lapinski R, Miller W: Effect of fetal gender on the prediction of Down syndrome. *Am J Obstet Gynecol* 1993; 169:1190-7.
54. Lockwood CJ, Dudenhausen JW: New approaches to the prediction of preterm delivery. *J Perinat Med* 1994; 22:441-52.
55. Lockwood CJ: Recent advances in elucidating the pathogenesis of preterm delivery, the detection of patients at risk and preventative therapies. *Curr Opin Obstet Gynecol* 1994; 6:7-18.
56. Stone JL, Lockwood CJ, Berkowitz G, Alvarez M, Lapinski R, Valcamonico A, Berkowitz RL: Use of cervical prostaglandin E₂ gel in patients with previous cesarean section. *Am J Perinatol* 1994; 11:309-12.
57. Lockwood CJ, Rand JH: The immunobiology and obstetrical consequences of antiphospholipid antibodies. *Obstet Gynecol Survey* 1994; 49:432-41.
58. Schatz F, Papp C, Toth-Pal E, Aigner S, Hausknecht V, Krikun G, Gordon RE, Berkowitz R, Lockwood CJ. In vitro regulation of stromelysin-I in human endometrial stromal cells. *Annals NY Acad Sci* 1994; 732:479-81.
59. Lockwood CJ, Krikun G, Papp C, Toth-Pal E, Markewicz L, Wang E, Kerényi T, Zhou X, Hausknecht V, Papp Z, Schatz F: The role of progesterationally regulated stromal cell tissue factor and type-1 plasminogen activator inhibitor (PAI-1) in endometrial hemostasis and menstruation. *Ann NY Acad Sci* 1994; 734:57-79.

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60. Schatz F, Papp C, Toth-Pal E, Cudemo V, Hausknecht V, Krikun G, Markiewicz L, Gavi B, Wang E, Papp Z, Lockwood CJ: Protease and protease inhibitor expression during *in vitro* decidualization of human endometrial stromal cells. *Ann NY Acad Sci* 1994; 734:33-42.
61. Lockwood CJ, Wein R, Chien D, Ghidini A, Alvarez M, Berkowitz RL: Fetal membrane rupture is associated with the presence of insulin-like growth factor binding protein-1 (IGFBP-1) in vaginal secretions. *Am J Obstet Gynecol* 1994; 171:146-50.
62. Alvarez M, Ghidini A, Silverberg G, Ainbender E, Lockwood CJ: Congenital nephrosis in low risk pregnancies. *Prenatal Diagn* 1994; 14:599-602.
63. Guller S, Wozniak R, Leibman MI, Lockwood CJ: Negative regulation of placental fibronectin expression by glucocorticoids and cyclic adenosine 3',5'-monophosphate. *Ann NY Acad Sci* 1994; 734:132-42.
64. Lockwood CJ, Moscarelli RD, Wein R, Lynch L, Lapinski R, Ghidini A: Low concentrations of vaginal fetal fibronectin as predictor of deliveries occurring after 41 weeks. *Am J Obstet Gynecol* 1994; 171:1-4.
65. Schatz F, Papp C, Toth-Pal E, Lockwood CJ: Ovarian steroid modulated stromelysin-1 expression in human endometrial stromal and decidual cells. *J Clin Endocrinol Metab* 1994; 78:1467-72.
66. Guller S, Markiewicz L, Wozniak R, Burnham JM, Wang E-Y, Kaplan P, Lockwood CJ: Developmental regulation of glucocorticoid-mediated effects on extracellular matrix protein expression in the human placenta. *Endocrinol* 1994; 134:2064-71.
67. Thomas AG, Alvarez M, Friedman F, Brodman M, Kim J, Lockwood CJ: The effect of placenta previa on blood loss in second-trimester pregnancy termination. *Obstet Gynecol* 1994; 84:58-60.
68. Schatz F, Papp C, Toth-Pal E, Aigner S, Hausknecht V, Krikun G, Gordon RE, Berkowitz R, Lockwood CJ: In vitro regulation of stromelysin-1 in human endometrial stromal cells. *NY Acad Sci* 1994; 732:479-82.
69. Lockwood CJ, Ghidini A, Wein R, Lapinski R, Casal D, Berkowitz RL: Increased interleukin-6 concentrations in cervical secretions are associated with preterm delivery. *Am J Obstet Gynecol* 1994; 171:1097-1102.
70. Leavitt J, Chen ZP, Lockwood CJ, Schatz F: Regulation of synthesis of the transformation-induced protein, leukocyte plastin, by ovarian steroid hormones. *Cancer Research* 1994; 54:3447-54.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

71. Lockwood CJ, Krikun G, Papp C, Aigner S, Nemerson Y, Schatz F: Biological mechanisms underlying RU 486 clinical effects: Inhibition of endometrial stromal cell tissue factor content. *J Clin Endocrinol Metab* 1994; 79:786-90.
72. Reece EA, Lockwood CJ, Tuck S, Coulehan J, Homko C, Wiznitzer A, Puklin J: Retinal and Pregnancy Outcomes in the Presence of Diabetic Proliferative Retinopathy. *J Reprod Med* 1994; 39:799-804.
73. Krikun G, Lockwood CJ, Wu XX, Zhou X, Guller S, Calandri C, Nemerson Y, Rand JH: The expression of the placental anticoagulant protein, annexin V, by villous trophoblasts: Immunolocalization and *in vitro* regulation. *Placenta* 1994; 15:601-12.
74. Paidas MJ, Lockwood CJ, Berkowitz RL, Lapinski R, Bussel JB, Lynch L: Alloimmune thrombocytopenia: Fetal and neonatal losses related to fetal blood sampling. *Am J Obstet Gynecol* 1995; 172:475-9.
75. Rand JH, Wu XX, Guller S, Gil J, Scher J, Lockwood CJ: Reduction of annexin-v in the placental villi of women with antiphospholipid antibodies and recurrent spontaneous abortion. *Am J Obstet Gynecol* 1994; 171:1566-72.
76. Radunovic N, Lockwood CJ, Alvarez M, Nastic D, Petkovic S, Berkowitz RL: Fetal and maternal plasma endothelin levels during the second half of pregnancy. *Am J Obstet Gynecol* 1995; 172:28-32.
77. Lockwood CJ, Krikun G, Papp C, Aigner S, Schatz F: Biological mechanisms underlying RU 486 clinical effects: modulation of endometrial stromal cell plasminogen activator and plasminogen activator inhibitor expression. *J Clin Endocrinol Metab* 1995; 80:110-15.
78. Velasco JG, Alvarez M, Gonzalez A, Lockwood CJ: Nuevos marcadores bioquimicos en el parto prematuro con membranas integras. *Prog Obst Gin* 1995; 38:155-12.
79. Guller S, Wozniak R, Lockwood CJ: Opposing actions of transforming growth factor- β and glucocorticoids in the regulation of fibronectin expression of the human placenta. *J Clin Endocrinol Metab* 1995; 80: 3273-8
80. Khandelwal M, Lynch L, Lockwood CJ, Ainbender E: Maternal serum levels of alphafetoprotein and fetal fibronectin as markers of labor in the third trimester. *Am J Perinatol* 1995; 12:161-3
81. Lynch, L., Lapinski, R., Alvarez, M, Lockwood CJ. Accuracy of ultrasound estimation of fetal weight in multiple pregnancies. *Ultrasound Obstet Gynecol* 1995; 6:349-52

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82. Guller S, Kong L, Wozniak R, Lockwood CJ: Reduction of extracellular matrix protein expression in human amnion epithelial cells by glucocorticoids: a potential role in preterm rupture of the fetal membranes. *J Clin Endocrinol Metab* 1995; 80:2244-50
83. Lockwood CJ, Krikun G, Aigner S, Schatz F: Thrombin effects on steroid-modulated cultured endometrial stromal cell fibrinolytic potential. *J Clin Endocrinol Metab* 1996; 81:107-12
84. Lockwood CJ, Radunovic N, Nastic D, Petkovic S, Aigner S, Berkowitz GS: Corticotropin-releasing hormone and related pituitary-adrenal axis hormones in fetal and maternal blood during the second half of pregnancy. *J Perinat Med* 1996; 24:243-51
85. Bianco A, Stone J, Lapinski R, Lockwood CJ, Lynch L, Berkowitz RL. The clinical outcome of preterm premature rupture of membranes in twin versus singleton pregnancies. *Am J Perinatol* 1996; 13:135-8
86. Lockwood CJ. A biological model for menstruation. *J Soc Gynecol Invest* 1996; 3:159-65.
87. Mccenas CA, Giussani DA, Owiny JR, Jenkins SL, Wu WX, Honnebier BOM, Lockwood CJ, King L, Guller S, Nathanielsz PW: Production of premature delivery in pregnant rhesus monkeys by androstenedione infusion. *Nature Med* 1996; 2:443-8
88. Runic R, Lockwood CJ, Yuehong MA, DiPasquale B, Guller S. Expression of fas ligand by human cytotrophoblasts: implications in Placentation and fetal survival. *J Clin Endocrinol Metab*. 1996; 81: 3119-22.
89. Sills ES, Buam JD, Ling X, Harner MM, Levy DP, Lockwood CJ. Durée moyenne du travail spontané chez les primipares chinoises. *J Gynecol Obstet Biol Reprod* 1997; 26: 704710.
90. Ghidini A, Hicks C, Lapinski RH, Lockwood CJ: Morbidity in the preterm infant with mature lung indices. *Am J Perinatol* 1997; 14: 75-8
91. Funai EF; Klein SA; Lockwood CJ: Successful pregnancy outcome in a patient with both congenital hypofibrinogenemia and protein S deficiency. *Am J Obstet Gynecol* 1997; 89:5 (2): 858
92. Zangari M, Lockwood CJ, Scher J, Rand JH. Prothrombin activation fragment (F1.2) is increased in pregnant patients with antiphospholipid antibodies. *Thrombosis Research* 1997; 85:3: 177:83
93. Schatz F, Papp C, Aigner S, Krikun G, Hausknecht V, Lockwood CJ: Biological mechanisms underlying the clinical effects of RU 486: Modulation of cultured endometrial

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- stromal cell stromelysin-1 and prolactin expression. *J Clin Endocrinol Metab* 1997; 82: 188-193
94. Rand JH, Wu X-X, Andree H, Lockwood CJ, Guller S, Scher J, Harpel, PC. Pregnancy loss in the antiphospholipid-antibody syndrome--A possible thrombogenic mechanism. *N Eng J Medicine* 1997; 337:154-160
 95. Bissonette J, Chambers S, Collins P, Lockwood CJ, Mendelson C, Myatt L, Polan ML, Shen WH, Szal S. Strengthening Reserach in Departments of Obstetrics and Gynecology. *J Soc Gynecol Invest* 1997; 4:3:115-22.
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FORMAL LECTURES/GRAND ROUNDS:

1. Grand Rounds: Sonographic Diagnosis of Fetal Down Syndrome. Michael Reese Hospital, Chicago, IL, 1987.
2. Perinatal Conference: Sonographic Diagnosis of Fetal Down Syndrome. Parkland Memorial Hospital, Dallas, TX, 1987.
3. Invited Speaker: Toxemia: New Concepts in an Old Disease. Meeting of the North American Society of Obstetricians and Gynecologists, New Haven, CT, 1987.
4. Grand Rounds: Toxemia: New Concepts in an Old Disease. Mount Auburn Hospital, Cambridge, MA, 1987.
5. Grand Rounds: Toxemia: New Concepts in an Old Disease. St. Margaret's Hospital, Tufts University School of Medicine, Boston, MA, 1988.
6. Grand Rounds: The Pathogenesis of Preterm PROM and Preterm Labor. St. Margaret's Hospital, Tufts University School of Medicine, Boston, MA, 1988.
7. Invited Speaker: Sonographic Diagnosis of Down Syndrome, Down Syndrome Research Conference, sponsored by the Foundation for Blood Research, Scarborough, ME, 1988.
8. Grand Rounds: Toxemia: New Concepts in an Old Disease: A review of the evidence for vascular injury as the primary pathogenic event. Hutzel Hospital, Wayne State University, Detroit, MI, 1988.
9. Grand Rounds: Antiphospholipid Antibodies and Lupus Anticoagulant. Hutzel Hospital, Wayne State University, Detroit, MI, 1988.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

10. Invited Speaker: The Sonographic Diagnosis of Fetal Congenital Anomalies. Michigan State Medical Society Annual Scientific Meeting, Dearborn, MI, 1988.
11. Invited Speaker: The ultrasound Detection of Chromosomal Disorders: How Good is it? 2nd Annual Genetics Conference for Perinatal Providers, sponsored by the Pacific Southwest Regional Genetics Network, 1990.
12. Grand Rounds: Fetal Fibronectin as a Marker for Preterm Delivery. Albert Einstein College of Medicine, New York, NY, 1991.
13. Grand Rounds: Fetal Fibronectin as a Marker for Preterm Delivery. Department of Obstetrics and Gynecology, Yale University School of Medicine, New Haven, CT, 1991.
14. Grand Rounds: Fetal Fibronectin as a Marker for Preterm Delivery. Department of Obstetrics and Gynecology, St. Margaret's Hospital, Tufts University School of Medicine, Boston, MA, 1991.
15. Postgraduate Course: Recurrent Pregnancy Loss and Antiphospholipid Antibodies. University of Kansas School of Medicine, Wichita, 1991.
16. Invited Speaker: American Gynecological and Obstetrical Society Endowment Scholar Lecture, Annual Meeting of the American Gynecological and Obstetrical Society, Carlsbad, CA, 1991.
17. Grand Rounds: Fetal Fibronectin as a Marker for Preterm Delivery. Department of Obstetrics and Gynecology, New York Medical College, Valhalla, NY, 1992.
18. Grand Rounds: Fetal Fibronectin as a Marker for Preterm Delivery. Department of Obstetrics and Gynecology, Stamford Hospital, CT, 1992.
19. Invited Speaker: Premature Labor - New Methods for the Prediction of Premature Labor: 15th Annual Mid-Winter Symposium, Phoenix, AZ, 1992.
20. Invited Speaker: Immunolocalization of Fetal Fibronectin in Placenta and Membranes. 3rd World Congress of Gynecological Endocrinology, Madonna di Campiglio, Italy, 1992.
21. Invited Speaker: Fetal Fibronectin as a Marker for Rupture of Membranes and Labor. 3rd World Congress of Gynecological Endocrinology, Madonna di Campiglio, Italy, 1992.
22. Faculty: Advanced OB/GYN Imaging: Ultrasound Applications to Clinical Practice. St. Thomas, VI, 1992.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

23. Invited Speaker: Fetal Fibronectin in Cervicovaginal Secretions Predicts Preterm Delivery. 2nd International Capri Conference. Neuroendocrine and Peripheral Disorders of Female Reproductive System: Pathophysiology and Therapies, Capri, Italy, 1992.
24. Faculty: Update in Clinical Obstetrics. GYN CME Fund, Las Vegas, NE, 1992.
25. Invited Speaker: NIH Workshop on Abnormal Uterine Bleeding Myomas, and Infertility, 1992. Sponsored by NICHD and the Office of Research on Women's Health (NIH).
26. Moderator: ACOG Update Audiocassette Program: Predicting Premature Labor, 1992.
27. Invited Speaker: Fetal Fibronectin in Preterm Labor. Women's Health Care in the 90's Conference. Sponsored by The Perinatal Institute of Jersey Shore Medical Center, Atlantic City, NJ, 1992.
28. Invited Speaker: Toxemia: New Concepts in an Old Disease. Department of Obstetrics and Gynecology, Cedars Sinai Medical Center, Los Angeles, CA, 1992. (Grand Rounds)
29. Guest Speaker: Predicting Prematurity. Los Angeles Obstetrical and Gynecological Society, Inc., Los Angeles, CA, 1992.
30. Invited Speaker: Premature Labor and Fetal Fibronectin. Department of Obstetrics and Gynecology, Mercy Catholic Medical Center, Darby, PA, 1992. (Grand Rounds)
31. Faculty: Clinical Management of Preterm Labor Course. 13th Annual Meeting, Society of Perinatal Obstetricians, San Francisco, CA, 1993.
32. Invited Speaker: The Detection of Fetal Fibronectin in the Prediction of Preterm Labor. Department of Obstetrics and Gynecology, North Shore University Hospital, Manhasset, NY, 1993. (Grand Rounds)
33. Faculty: 34th Annual OB/GYN Postgraduate Conference, Maternal Fetal Medicine Course, Park City, UT, 1993.
34. Invited Speaker: Prediction of Preterm Delivery. 3rd Latin American Congress of Perinatology and 5th National Congress of Hypertension in Pregnancy, Sao Paulo, Brazil, 1993.
35. Invited Speaker: The Detection of Fetal Fibronectin in the Prediction of Preterm Labor. Department of Obstetrics and gynecology, Saint Francis Hospital and Medical Center, Hartford, CT, 1993. (Grand Rounds)
36. Invited Speaker: Immunological Causes of IUGR, 12th Spanish Congress of Obstetrics and Gynecology, Sevilla, Spain, 1993.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

37. Invited Speaker: Premature Labor and Fetal Fibronectin. Free University of Berlin, Berlin, Germany, 1993.
38. Invited Speaker: Premature Labor and Fetal Fibronectin. Brown University School of Medicine, Providence, RI, 1993.
39. Invited Speaker: Fetal Fibronectin: Prediction of Prematurity. Robert Wood Johnson Hospital, New Brunswick, NJ, 1993.
40. Invited Speaker: Fetal Fibronectin. Medical Center of Delaware, Newark, DE, 1993.
41. Visiting Professor: Prediction of Preterm Delivery and Fetal Fibronectin. Hospital de Ginecologia y Obstetricia "Luis Castelazo Ayala", En El Simposium "Parto Pretermino", Mexico, 1994.
42. Faculty Member: Medical Complications in Pregnancy (030), ACOG course, Orlando, FL, 1994.
43. Invited Speaker: Screening Tests During Pregnancy, Combined meeting of the CSCC, SQBC, CAMB, Quebec, Canada, 1994.
44. Invited Speaker: Progestational Regulation of Endometrial Stromal Cell Tissue Factor Expression, 9th International Congress on Hormonal Steroids, Dallas, TX, 1994.
45. Invited Speaker: Management of Preterm Labor and Delivery. The 13th Annual Frank Hammond Sivitz Symposium sponsored by: Albert Einstein Medical Center, Philadelphia, PA, 1994.
46. Invited Speaker: New Concepts in the Pathogenesis and Predictions of Preterm Delivery. Rockford Memorial Hospital Course: Use of Fetal Fibronectin in the Identification of Patients at Risk for Preterm Labor. Galena, IL, 1994.
47. Grand Rounds: Management of Preterm Labor and Delivery. Roosevelt Hospital, New York, NY, 1994.
48. Invited Speaker: Annual Semmelweis-Waters. Obstetrical and Gynecological Conference sponsored by: University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Department of Obstetrics and Gynecology, Atlantic City, NJ, 1995.
49. Visiting Professor: New Concepts in the Prevention of Prematurity. Hugh R.K. Barber Obstetrical/Gynecological Alumni Society, Lenox Hill Hospital, New York, NY, 1995.
50. Invited Speaker: Causes of Bleeding Patterns. An NICHD-Sponsored Workshop, Bethesda, MD, 1995.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

51. Invited Speaker: Prediction of Preterm Delivery: Fibronectin. Tocolysis in the Prevention of Preterm Delivery. 2nd International Symposium on High Risk Pregnancy, Rio de Janeiro State University, Rio de Janeiro, Brazil, 1995.
52. Invited Speaker: Fetal Fibronectin. The World Symposium of Perinatal Medicine, Washington, DC, 1995.
53. Grand Rounds: Recurrent Pregnancy Loss: Lenox Hill Hospital. New York, NY, 1995.
54. Grand Rounds: Biochemical Markers of Preterm Delivery: North Shore University Hospital. New York, NY, 1995.
55. Invited Speaker: The Definition and Detection of Fetal Growth Retardation: The Fetus As a Patient. XI International Congress, New York, NY, 1995.
56. Grand Rounds: Diagnosis of Prematurity: The New York Hospital-Cornell Medical Center. New York, NY, 1995.
57. Grand Rounds: Fetal Fibronectin: Englewood Hospital and Medical Center. Englewood, NJ, 1995.
58. Grand Rounds: Predicting Prematurity. St. John's Mercy Medical Center. St. Louis, MO., 1995.
59. Invited Speaker: Preterm Labor, Prediction and Prevention, The 3rd Annual Seminar on Maternal Fetal Dilemmas, The Prevention of Prematurity and Neonatal Mortality. North Shore University Hospital, Manhasset, NY, 1995.
60. Grand Rounds. Fetal Fibronectin. Brigham and Women's Hospital, Boston, MA, 1996.
61. Grand Rounds. Prediction of Preterm Delivery. Our Lady of Mercy Medical Center, Bronx, NY, 1996.
62. Grand Rounds. Prediction of Preterm Delivery New York University School of Medicine, NY, NY, 1996.
63. Grand Rounds. Fetal Fibronectin. Muhlenberg Regional Medical Center, Plainfield, NJ, 1996.
64. Grand Rounds. Preterm Birth Prevention and Fetal Fibronectin. Hunterdon Medical Center, Flemington, NJ, 1996.
65. Grand Rounds. Prediction of Preterm Delivery. State University of New York, Downtown Medical Center, Brooklyn, NY, 1996.

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Curriculum Vitae - continued

66. Visiting Professor. Yale University School of Medicine, Resident Research Day, New Haven, CN, 1996.
67. Invited Speaker. Biochemical Indicators of Preterm Labor. Bronx Gynecological and Obstetrical Society, Bronx, NY, 1996.
68. Invited Speaker. Fetal Fibronectin. Cleveland Ohio perinatologists from Northern Ohio, 1996
69. Invited Speaker. Update: Management of Anticardiolipin Antibodies in Pregnancy. The Fairfield County Gynecological and Obstetrical Society, Darien, CT, 1996
70. Lecture. Regulation of Endometrial Hemostasis by Ovarian Sterioids, Combined Pediatric/Adult Endocrine Seminar, NYU Medical Center, 1996.
71. Lecture. Prenatal Diagnosis and Neonatal Disease Prevention: Neural Tube Defects and Down's Syndrome. 19th Annual Pediatric Post-Graduate Course, New York University Medical Center, 1996.
72. Invited Speaker: The Future of Minimally Invasive Surgery. Mount Auburn Hospital Quarterly Seminar on "New Directions in Ob/Gyn," Newton, MA, 1996.
73. Invited Speaker: Prediction of Preterm Delivery Using Biochemical Markers. Fifth Annual Perinatal Symposium, St. Vincent's Medical Center of Richmond, Staten Island, NY, 1996.
74. Grand Rounds. Biochemical Predictives for Pre-Term Delivery. State University of New York/Health Science Center At Brooklyn, August 1996.
75. Grand Rounds. The Management of Preterm Labor. Maimonedes Medical Center, Brooklyn, NY. September 1996.
76. Grand Rounds. Antiphospholipid Antibodies: Pregnancy Loss and Fetal Growth Retardation. New York University School of Medicine, Department of Pediatrics, September 1996.
77. Invited Speaker: Fetal Fibronectin and the Prediction of Preterm Labor. Suffolk County Ob-Gyn Society Meeting, September 1996.
78. Lecturer. Prediction of Preterm Labor. Debate: "The Radius Study—Should Obstetrical Ultrasound be Routine." Debate: "The Role of Tocolytics in Modern Obstetrics." American College of Obstetrics and Gynecologists District II annual meeting. Stockholm. October 1996.

*Curriculum Vitae - continued**Charles J. Lockwood, M.D.*

79. Speaker: Prediction of Preterm Delivery. 21st Annual Symposium, Clinical Aspects of Perinatal Medicine; Department of Obstetrics and Gynecology and Department of Pediatrics, Christ Hospital and Medical Center, Oak Lawn, Illinois, November 1996.
80. Speaker: Practical Management of the Patient with Antiphospholipid Antibodies. 21st Annual Symposium, Clinical Aspects of Perinatal Medicine, Department of Obstetrics and Gynecology and Department of Pediatrics, Christ Hospital and Medical Center, Oak Lawn, Illinois, November 1996.
81. Speaker: Pathophysiology of preterm labor. Masters Symposium on Ultrasound in Obstetrics and Gynecology, New York Academy of Medicine, November 1996.
82. Grand Rounds. Fetal well-being and biophysical testing. The Valley Hospital, Ridgewood, New Jersey. Joint Meeting of Departments of Pediatrics and Gynecology-Obstetrics. November 1996.
83. Grand Rounds. Fetal fibronectin. Hackensack University Medical Center. December 1996.
84. Guest Lecturer. Fetal fibronectin. Antiphospholipid antibody syndrome. Southwestern Gynecologic Assembly. Dallas, TX. December 1996.
85. Grand Rounds. Biochemical prediction of preterm delivery. Winthrop-University Hospital. Department of Obstetrics and Gynecology. January 1997.
86. Guest Speaker. Biochemical prediction of preterm delivery. New York Obstetrical Society, January 1997.
86. Guest Speaker. Predicting preterm labor. Westchester Obstetrical Society. Purchase NY. February 1997.
87. Grand Rounds. Anticardiolipin antibodies in pregnancy. New York Medical College/Westchester County Medical Center, Department of Obstetrics and Gynecology. Valhalla, NY. February 1997.
88. Guest Lecturer. Biochemical markers of preterm labor. Phospholipid antibodies complicating pregnancy. Postgraduate course. Midwinter Seminar, University of South Florida College of Medicine, Department of Obstetrics and Gynecology, St. Petersburg, FL. February 1997.
89. Guest Lecturer. Preterm labor. Harvard Medical School/Brigham and Women's Hospital, postgraduate course in Maternal-Fetal Medicine. Boston MA. March 1997.
90. Speaker. Prediction of preterm labor. Columbus Ohio Society of Obstetrics and Gynecology. Columbus, Ohio. March 1997.

Curriculum Vitae - continued

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105. Speaker. Antiphospholipid Antibodies. The New York Gynecological Society. New York, NY. January 28, 1998.

Updated: 4/3/98

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